

# Build Tools

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## 1. Gnu Make

Doc Writer <[christian.popescu@outlook.com](mailto:christian.popescu@outlook.com)> v 1.0, 2019-12-17 :toc:

**GNU Make** is a tool which controls the generation of executables and other non-source files of a program from the program's source files.

## 2. Apache Maven

Doc Writer <[christian.popescu@outlook.com](mailto:christian.popescu@outlook.com)> v 1.0, 2020-02-17 :toc:

### 2.1. Introduction

Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (**POM**), Maven can manage a project's build, reporting and documentation from a central piece of information.

[Apache Maven site](#)

### 2.2. Useful commands

List all the dependencies of one project.

```
mvn dependency:tree
```

Install sources for the dependencies to be available for debugging.

```
mvn dependency:sources
```

Modify POM file to download sources by default.

```
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-eclipse-plugin</artifactId>
      <configuration>
        <downloadSources>true</downloadSources>
        <downloadJavadocs>true</downloadJavadocs>
      </configuration>
    </plugin>
  </plugins>
</build>
// include::ncurses/ncurses.adoc[]
```